

**From:** [R6HarveyENVL](#)  
**To:** [R6HarveyInfo](#)  
**Subject:** FW: How are you interpreting the "chemical" data  
**Date:** Thursday, September 7, 2017 12:01:27 PM

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**From:** Cardarelli, John  
**Sent:** Thursday, September 7, 2017 12:01:26 PM (UTC-06:00) Central Time (US & Canada)  
**To:** Charters, David; Curry, Tim  
**Cc:** Kudarauskas, Paul; R6HarveyENVL; Rauscher, Jon; Turner, Philip  
**Subject:** Re: How are you interpreting the "chemical" data

Hi Dave,

We are actively working on a write-up on "How to interpret ASPECT chemical detections". Please send me the State numbers ASAP (just got them before I sent this email) and we'll adjust our reporting to only include those compounds IF they are included as part of our automated processing.

For clarity, we'll address:

1. ASPECT chemical sensors
2. Chemicals compounds that are automatically processed
  1. limit of detection depends on key assumption of FTIR path length (1m vs. 10 m vs. 100 m).
3. Compare to State compounds of interest and report only those compounds of interest to the State.
4. Are these detections a problem from the public perspective? Answer: Depends if it is an active large-scale release vs environmental survey associated with an Aerial photo mission. Objective of the sortie matters - goes to the DQOs. Are they ground-based measurements? (Answer: NO), So what do we do about any detections? Potential Answers: Go out and confirm ground-based breathing air concentrations are not above some pre-determined limit (e.g. State levels?). Probably use TAGA, or AreaRAEs, or conduct high-vol or low-vol air sampling (results could take days to get). If there a need for real-time confirmation, that will greatly limit options.

We'll refine questions and answers as we go.

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**From:** Charters, David  
**Sent:** Thursday, September 7, 2017 11:51 AM

**To:** Cardarelli, John; Curry, Tim  
**Cc:** Kudarauskas, Paul; R6HarveyENVL; Rauscher, Jon; Turner, Philip  
**Subject:** RE: How are you interpreting the "chemical" data

ASPECT not TAGA sorry

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**From:** Charters, David  
**Sent:** Thursday, September 07, 2017 11:29 AM  
**To:** Cardarelli, John <Cardarelli.John@epa.gov>; Curry, Tim <Curry.Timothy@epa.gov>  
**Cc:** Kudarauskas, Paul <Kudarauskas.Paul@epa.gov>; R6HarveyENVL <R6HarveyENVL@epa.gov>; Charters, David <Charters.DavidW@epa.gov>; Rauscher, Jon <Rauscher.Jon@epa.gov>; Turner, Philip <Turner.Philip@epa.gov>  
**Subject:** How are you interpreting the "chemical" data

John/Tim

We are being asked how to interpret your chemical readings from the TAGA can you give us both the long and short explanation. I think the pictures speak for themselves.

david

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Environmental Response Team

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